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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/081,730	02/22/2002	Lysander Lim	SILA:106	2831
75	7590 12/11/2003		. EXAMINER	
O'KEEFE, EGAN & PETERMAN, L.L.P.			NGUYEN, HIEP	
Building C, Suite 200 1101 Capital of Texas Highway South			ART UNIT	PAPER NUMBER
Austin, TX 78746			2816	

DATE MAILED: 12/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

				GA
19		Application No.	Applicant(s)	
Office Action Summary		10/081,730	LIM ET AL.	
		Examiner	Art Unit	
		Hiep Nguyen	2816	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet	with the correspondence ac	idress
THE - External after - If the state of the s	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repoperiod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ly within the statutory minimum of twill apply and will expire SIX (6) Mile, cause the application to become	a reply be timely filed hirty (30) days will be considered time ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	
1)⊠	Responsive to communication(s) filed on 22 S	September 2003.		
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.		
3)	Since this application is in condition for allowardsed in accordance with the practice under			e merits is
Disposit	ion of Claims			
5)□ 6)⊠ 7)⊠ 8)□ <b>Applicat</b> 9)□	Claim(s) 22-39 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 22-38 is/are rejected. Claim(s) 39 is/are objected to. Claim(s) are subject to restriction and/one claim(s) are subjected to by the Examination.	wn from consideration. or election requirement. er.		
10)	The drawing(s) filed on is/are: a) acc	cepted or b) objected to	o by the Examiner.	
	Applicant may not request that any objection to the	•	` '	
44)	Replacement drawing sheet(s) including the correct	•	*	` '
,—	The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form P	10-152.
	under 35 U.S.C. §§ 119 and 120		C 440(=) (d) == (5)	
* (13)	Acknowledgment is made of a claim for foreig All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list Acknowledgment is made of a claim for domest since a specific reference was included in the first CFR 1.78.  A) The translation of the foreign language process of the company of the foreign language process of the claim for domest efference was included in the first sentence of the company of the claim for domest efference was included in the first sentence of the company of the claim for domest efference was included in the first sentence of the company of the claim for domest efference was included in the first sentence of the certified copies of the priority document is made of a claim for domest efference was included in the first sentence of the certified copies of the priority document is made of a claim for domest effect.	ts have been received. Its have been received in brity documents have been u (PCT Rule 17.2(a)). It of the certified copies not ic priority under 35 U.S.C st sentence of the specification has ic priority under 35 U.S.C	Application No en received in this National of received.  C. § 119(e) (to a provisional ication or in an Application been received.  C. §§ 120 and/or 121 since	al application) Data Sheet. a specific
Attachmer	nt(s)			
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	S) Notice of	v Summary (PTO-413) Paper No( f Informal Patent Application (PTO	

Application/Control Number: 10/081,730

Art Unit: 2816

#### **DETAILED ACTION**

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 22-38 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 5 of U.S. Patent No. 6,323,735. Although the conflicting claims are not identical, they are not patentably distinct from each other.

Regarding claim 22-24, claim 5 of U.S. Patent No. 6,323,735 recites a method of assembling a semiconductor package comprising: forming inductors or inductance circuits (first and second inductors) at least partially between the integrated circuit and the package substrate. Each inductor is formed by coupling first and second conductive features between the integrated circuit and at least one substrate electrical contact (as called for in claims 5, 7 of USP 6,323,735).

Regarding claims 25 and 26, claim of USP 6,323,735 recites a method of forming first and second inductors wherein the inductance value of the first and second inductors depends on the identity of the alternative substrate electrical contacts.

Application/Control Number: 10/081,730

Art Unit: 2816

Regarding claims 27 and 28, claim 8 of USP 6,323,735 recites the substrate electrical contacts comprise substrate bonding pads disposed a variable distances from the integrated circuit (claim 8).

Regarding claims 29 and 30, claim 9 of USP 6,323,735 recites a first set of alternative substrate electrical contacts corresponding to the first inductor comprising bonding pads and conductive features comprising solder bumps.

Regarding claim 32, claim 9 of USP 6,323,735 recites a method for forming a plurality f inductances comprising of forming bonding pads positioned at variable locations and coupling them to a plurality of conductive features.

Regarding claim 33-38, claims 23-26 of USP 6,323,735 recite a phase locked-loop circuit comprising a controlled oscillator within the integrated circuit. The controlled oscillator comprises a LC tank. The output of the frequency synthesizer inherently covers a plurality of frequency bands and the capacitor is electrically coupled to the inductors and the inductors are formed within the semiconductor package.

### Allowable Subject Matter

Claim 39 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 39 is objected to because USP 6,323,735 fails to teach or fairly suggest a method of forming inductors wherein the first and second inductor are formed symmetrically with respect to each other.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Hiep Nguyen whose telephone number is (703) 305-0127. The examiner can normally be reached on Monday to Friday from 7:30 A.M.to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached on (703) 308-4876. The fax phone number for this Group is (703) 308-6251.

Application/Control Number: 10/081,730

Art Unit: 2816

Page 4

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Hiep Nguyen

Examiner

12-09-03

TUANT. LAM

PRIMARY EXAMINER